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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/777,150	02/13/2004	Woo-jong Park	Q79322	4042
23373 SUGHRUE MI	7590 09/04/200 ION PLLC	EXAMINER		
2100 PENNSY	LVANIA AVENUE, N	CHU, WUTCHUNG		
SUITE 800 WASHINGTON, DC 20037			ART UNIT	PAPER NUMBER
	.,		2616	
			MAIL DATE	DELIVERY MODE
			09/04/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)				
	10/777,150	PARK, WOO-JONG				
Office Action Summary	Examiner	Art Unit				
	Wutchung Chu	2616				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a replevely will apply and will expire SIX (6) MONTHE, cause the application to become ABA	ATION. ly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 13 F	February 2004					
,	s action is non-final.	•				
;—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
	•	•				
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra						
· · · · · · · · · · · · · · · · · · ·	awn nom consideration.	•				
	· .					
6)⊠ Claim(s) <u>1-12</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers		•				
9) The specification is objected to by the Examin	er.					
10) The drawing(s) filed on is/are: a) ac	cepted or b) objected to by	y the Examiner.				
Applicant may not request that any objection to the	e drawing(s) be held in abeyanc	e. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	ction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1.⊠ Certified copies of the priority documents have been received.						
Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	_	ormal Patent Application				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5/13/2005 Other:						

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Epps et al. (US6977930).

Regarding claim 1, Epps et al. disclose pipelined packet switching and queuing architecture (see column 3 line 10-19) comprising:

- an input unit for inputting first data in first units of transmission (see figure 2 box
 210);
- a packet memory management unit for assembling the first data into an Internet
 Protocol (IP) packet and loading the IP packet into a packet memory, and
 reading out a pointer of an IP packet header and a pointer of an IP packet trailer
 connected to the IP packet header (see column 5 line 39 -47);

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a header processing unit for deciding a packet classification (see column 6 line
 24-28 and figure 5 box 520 classifier); and a transmission destination by using the IP packet header, and re-transmitting to the packet memory management unit the pointer of the IP packet trailer connected to the IP packet header (see column 15 line 12-27); and

an output unit for dividing the IP packet trailer read from the packet memory
management unit into second data in second units of transmission based on the
pointer of the IP packet header (see column 9 line 40-45) transmitted from the
header processing unit and the pointer of the IP packet trailer connected to the IP
packet header, and outputting the second data to a channel (see column 27 line
45-53 and 40 line 4-12);

Regarding claim 2, Epps et al. teach the packet memory management unit includes:

- a packet generator for generating the IP packet from the first data (see column 6 line 17-22 and figure 4 box 410);
- the packet memory (see figure 12 box 1210 queue manager and column 7 line 11-21) comprising plural buffers (see column 7 line 12 buffers) loading the IP packet, and the plural buffers storing buffer attribute information and the pointer of the IP packet trailer connected to the IP packet header (see column 7 line 17-22 pointers to each buffer);

 a transmission header queue for loading the pointer of the IP packet header corresponding to a transmission order of the IP packet (see column 9 line 40-45); and

a controller for reading from the packet memory the pointers of the IP packet header and the IP packet trailer connected to the IP packet header, according to the transmission order determined by the transmission header queue (see column 9 line 40-45), and transmitting the pointers of the IP packet trailer and the IP packet trailer to the header processing unit (see column 9 line 38-51).

Regarding claim 3, Epps et al. teach the controller, if the pointer of the IP packet trailer connected to the IP packet header is re-transmitted from the header processing unit, reads the IP packet trailer connected to the IP packet header from a buffer corresponding to the pointer of the IP packet trailer, and transmits the IP packet trailer to the output unit (see column 15 line 12-27).

Regarding claim 4, Epps et al. teach the controller verifies whether a different IP packet trailer connected to the IP packet trailer exists by using the buffer attribute information corresponding to the pointer of the IP packet trailer, and, if the different IP packet trailer exists, reading and transmitting the different IP packet trailer to the output unit (see column 15 line 63 – column 16 line 12 and column 40 line 55 – column 41 line 4).

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Regarding claim 5, Epps et al. teach the buffer attribute information includes a front pointer of a front buffer connected to a front of the buffer (see column 16 lie 44-67) and a rear pointer of a rear buffer connected to a rear of the buffer, and information on whether a different IP packet trailer connected after the IP packet trailer, exists (see column 15 line 63 – column 16 line 12 and column 40 line 55 – column 41 line 4).

Regarding claim 11, Epps et al. teach the first units of transmission are the same as the second units of transmission (see column 40 line 39-46).

Regarding claims 6-10 and 12, Epps et al. disclose all the limitations as discussed in the rejection of system claims 1-5 and 11 and are therefore apparatus method claims 6-10 and 12 are rejected using the same rationales.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Belz et al. (US2006/0039374)

Calvignae et al. (US7085850)

Sugai et al. (US2006/0233156).

Maher, III et al. (US6381242)

Kim et al. (US2004/0165613)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wutchung Chu whose telephone number is 571 270.

The examiner can normally be reached on Monday - Friday 1000 - 1500EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edan D. Orgad can be reached on 571 272 7884. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/WC/ Wutchung Chu

> EDAN D. ORGAD SUPERVISORY PATENT EXAMINER